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SOIL MECHANICS-FOUNDATIONS
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RESOURCE RECLAMATION
DRAINAGE-PAVEMENTS
LAND DEVELOPMENT
WATER RESOURCES
SOLID WASTE

January 31, 1980

RECEIVED

FEB 1 1980

SOLID WASTE
MANAGEMENT PROGRAM

Mr. Robert M. Robinson, Director
Solid Waste Management Program
Mo. DNR
Box 1368
Jefferson City, MO 65102

0714
Westlake AF
ID #MBD07990192
Week: 3.0
CUD
1-31-80
CPR

Re: Westlake Quarry, Leachate
Treatment System

Dear Mr. Robinson:

This is a followup of our conversation concerning development plans for a wastewater treatment system for handling landfill leachate at Westlake Quarry.

A series of laboratory studies were conducted by Environmental & Energy Consultants, Inc. to determine treatability of the leachate. Additional laboratory studies were required to investigate biological treatment and better fix chemical treatment parameters.

The treatment plan calls for chemical treatment followed by biological treatment to reach a level of heavy metals and organics acceptable for discharge to the Metropolitan St. Louis Sewer District system. MSD has ample capacity available in their line to accept effluent discharge. It is planned to run the treatment system with an operating load of 60,000 gpd, 24 hours a day, six days a week.

This system was briefly outlined to Mr. Howard Winburn of the Mo. DNR, St. Louis office, on December 18, 1979, during his annual inspection visit to Westlake. Proposed locations of treatment plant and lagoons were staked out across the top of the old landfill area adjacent to old St. Charles Rock Rd.

The system will consist of the following, with appropriate inter-connecting piping:

1. A pump and piping system to pump leachate from the pit to the treatment plant on top of the old landfill.
2. Chemical treatment unit is a No. 3A type NS Accelator, manufactured by Infilco Degremont, Inc. This is a solids contact unit with upflow clarification which will assure maximum quality effluent with minimum chemical treatment.

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SUPERFUND RECORDS

DNR 0201

3. Biological treatment lagoon will provide a minimum of three days' detention and utilize four 10-hp floating mechanical aerators.

4. Settling lagoons, each capable of providing a minimum of one days' detention including sludge storage.

5. Settling lagoon to MSD sewer.

Sludge discharge from the Accelerator plant will be directed to the sludge-drying beds near the aeration lagoon with accumulating liquids taken off and put back into the treatment system.

Attached drawings show locations, schematic profile of the treatment system. Purchase orders have been placed for critical items and we are now working out necessary details for electrical requirements.

Detailed information will be forwarded as soon as available.

Very truly yours,

David E. Murray
DAVID E. MURRAY

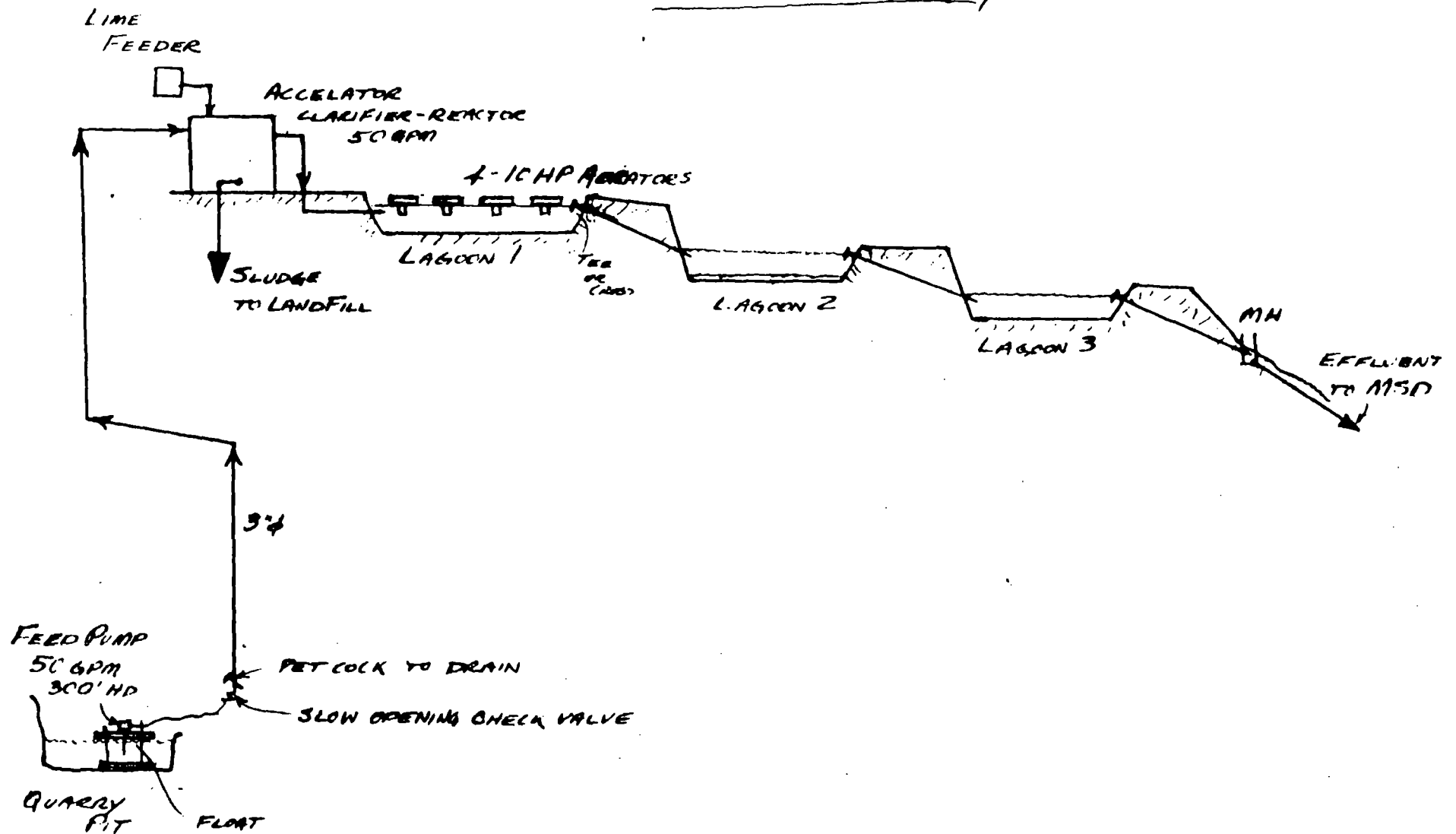
Encl.

DEM/rs

cc: Westlake Quarry

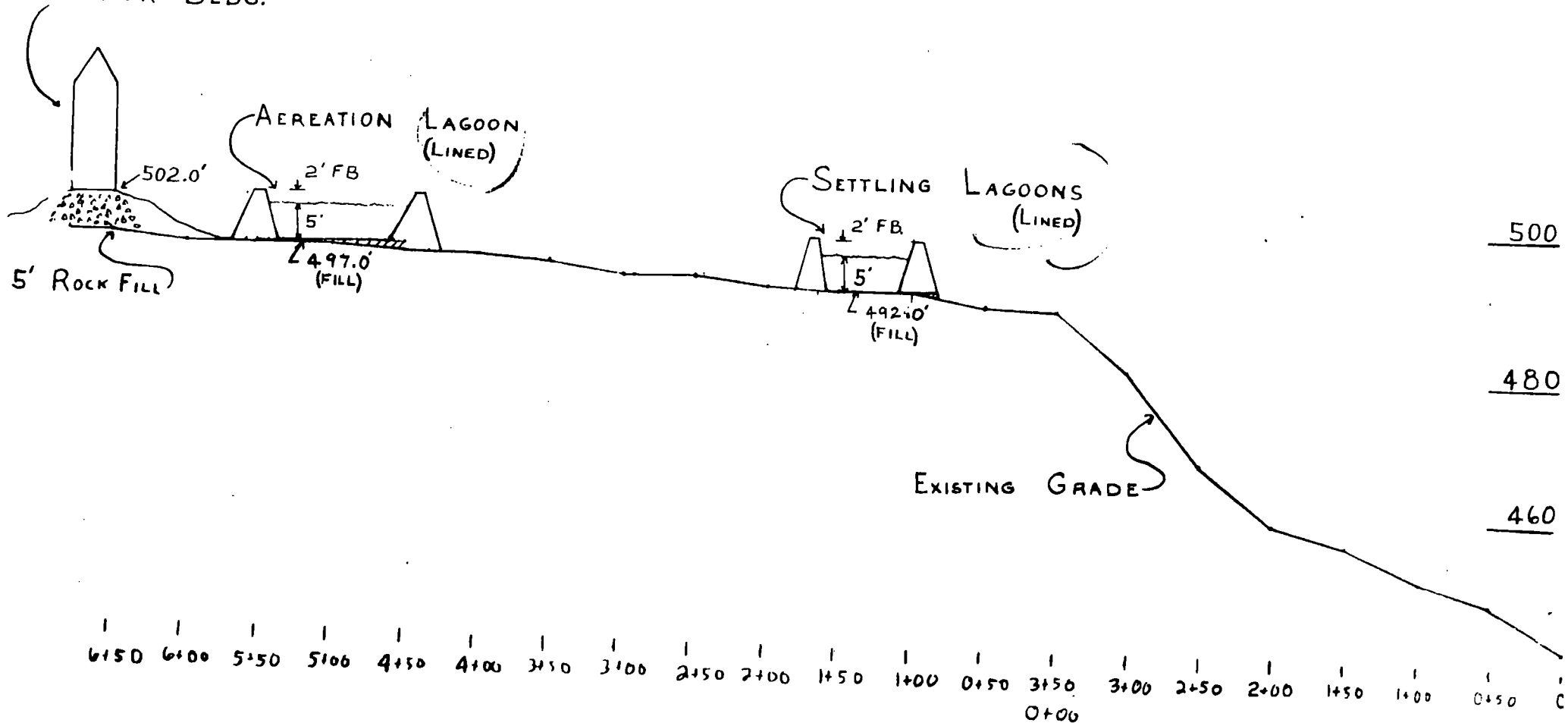
*Murray has been told that the sludge may be incinerated
which must go to a H.W. landfill.*
2/

WEST LAKE QUARRY



REITZ & JENS INC
JAN. 1980

ACCELERATOR BLDG.



1/4/80

REITZ & JENS, INC.

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